Index of Claims

| Application/Control No. |
|-------------------------|
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10/696,834

Examiner

Jean F. Duverne

Applicant(s)/Patent under Reexamination

SHIRAI ET AL.

Art Unit

2839

| 1  | Rejected |
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| 11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |  |  |  |  |  |  |  |
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| _ | Interference |  |  |  |  |  |  |  |

| A | Appeal   |
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| -            | 1        | 3           | ┢        |                |  | -        | -  | Н            |  |  |     | -     | 51       | =  | _  | <del>                                     </del> | T                | ┪  | -        | m  | t |
|              | 2        | 1           |          | H              |  | ·        | <del>                                     </del> |              | _  |  |     |       | 52       | 1  | $\vdash$   |  |                  |  |          |  | t |
|              | 3        | П           |          |                |  | Г        | <del>                                     </del> |              |  |  |     |       | 53       | 1  |  |  | Г                | Γ  |          |  | Γ |
|              | 4        | П           |          |                |  |          |  |              |  |  |     |       | 54       |  |  |  |                  |  |          |  | Γ |
|              | 5        | $\Box$      |          |                |  |          |  |              |  |  |     |       | 55       |  |  |  |                  |  |          | L  |   |
|              | 6        |             |          |                |  |          |  |              |  |  |     |       | 56       |  |  |  |                  |  |          |  | L |
|              | 7        | Ц           | L        | <u> </u>       | <u> </u>   | L        | <u> </u>   |              |  |  |     |       | 57       |  | <u> </u>   | L  | $oxed{oxed}$     |  | _        |  | L |
|              | 8        | Ц           | L        |                | <u> </u>   |          | _  | _            |  |  |     |       | 58       | _  |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | _                | _  | <u> </u> | Ŀ  | L |
|              | 9        | Ш           |          |                | <u> </u>   | L        | _  | _            |  | L.   |     |       | 59       | _  | _  | _  |                  |  | _        | <u> </u>   | L |
|              | 10       | _           |          | _              | <u> </u>   | L        | L  | _            |  | <u> </u>   |     |       | 60       | _  | <u> </u>   | <u> </u>   | _                | <u> </u>   | <u> </u> | _  | L |
|              | 11       |             |          |                | _  | <u> </u> | <u> </u>   |              | _  | <u> </u>   |     |       | 61       | <u> </u>                                     | _  | _  | <u> </u>         | <u> </u>   |          | <u> </u>   | Ļ |
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|              | 13       | Н           | <u> </u> | ⊢              | _  | _        | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>   |     |       | 63       | <del> </del>                                 | -  | -  | $\vdash$         | <u> </u>   | <u> </u> | ├-   | ╀ |
|              | 14       | Н           | <u> </u> | $\vdash$       | <b>—</b>   | <u> </u> | <b> </b> —                                       | <u> </u>     | -  | $\vdash$   |     |       | 64       | $\vdash$                                     | <del>  -</del>                                   | $\vdash$   | <u> </u>         | $\vdash$   | $\vdash$ | $\vdash$   | 1 |
| -            | 15       | Н           | ├-       | $\vdash$       | _  | ⊢        | _  | -            | _  | $\vdash$   |     | -     | 65       | $\vdash$                                     | <u> </u>   |  | _                | ├  | <u> </u> | ⊢  | ╀ |
|              | 16<br>17 | H           | ┝        | -              |  | -        | <u> </u>   | <u> </u>     | -  | -  |     |       | 66<br>67 | -  | ⊢  | _  | -                | ├—   | -        | -  | ╀ |
| -            | 18       | ⊢╂          | -        |                | ⊢  |          | ⊢  | -            | ⊢  | -  |     |       | 68       | -  | -  |  | ┝                | ⊢  | -        | $\vdash$   | ⊦ |
| -            | 19       | Н           | ╁┈       | ⊢              | ⊢  | ⊢        | ├  | ⊢            | -  | -  |     |       | 69       | -  |  |  | ├                | ├  | ⊢        | ├  | ╁ |
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|              | 21       | H           | ┢        | ┢              | H  | ┢        | ┢  | -            | -  | _  | 1   |       | 71       | <del> </del>                                 | -  |  | $\vdash$         | $\vdash$   |          |  | t |
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|              | 24       | Н           | 1        |                | _  | -        |  | Г            |  |  | 1   |       | 74       |  | <del> </del>                                     | _  | $\vdash$         |  | $\vdash$ | Г  | t |
|              | 25       | 1           | <u> </u> |                |  | $\vdash$ |  | $\vdash$     | $\vdash$   |  | 1   |       | 75       | _  | $\vdash$   | Т  |                  | Г  | Г        |  | r |
|              | 26       |             | Т        | _              |  |          |  |              |  |  |     |       | 76       | $\vdash$                                     |  | $\vdash$   | Т                | $\vdash$   | T        |  | t |
| -            | 27       | -           | T        | T              | Г  |          |  |              |  |  | ĺÌ  |       | 77       |  | _  | $\vdash$   |                  | Г  |          |  | T |
|              | 28       | 1           |          |                |  |          |  |              |  |  | lÌ  |       | 78       |  | Γ  |  | Π                | Г  | П        |  | Γ |
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|              | 30       |             |          |                |  |          |  |              |  |  |     |       | 80       |  |  |  |                  |  |          |  | Γ |
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|              | 32       |             |          |                |  |          |  | _            | _  |  | [   |       | 82       |  |  | <u></u>  | _                | <u>_</u>   | <u>_</u> | <u>L</u>   | L |
| $oxed{\Box}$ | 33       | L           | 1_       | <u></u>        | <u> </u>   | <u> </u> | L_   | <u> </u>     | L_   | <u> </u>   |     |       | 83       | <u> </u>                                     | <u> </u>   | <u> </u>   | _                | oxdot  | <u> </u> | <u> </u>   | L |
|              | 34       | 1           | 1_       | <u>L</u>       | <u> </u>   | _        | _  | <u> </u>     |  | <u> </u>   |     |       | 84       | <u> </u>                                     | <u> </u>   | <u> </u>   | Щ                | ⊢  | <u> </u> | <u> </u>   | Ļ |
| <u> </u>     | 35       | 1           | <b>!</b> | <u> </u>       | <u> </u>   | <u> </u> | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>   |     |       | 85       | <u> </u>                                     | <u> </u>   | $\vdash$   | <u> </u>         | <u> </u>   | <u> </u> | <u> </u>   | Ļ |
|              | 36       | 1           | <u> </u> | <u> </u>       | <u> </u>   | $\vdash$ | L.   |              | <u> </u>   | <u> </u>   |     |       | 86       | <u> </u>                                     |  | <b>—</b>   | $\vdash$         | <u> </u>   | <u> </u> | 1  | Ļ |
|              | 37       | 4           | ┞-       | <u> </u>       | <u> </u>   | <u> </u> |  | <u> </u>     | <u> </u>   | <u> </u>   |     |       | 87       | <u> </u>                                     | $\vdash$   |  | <b>├</b> -       | <del> </del>                                     | $\vdash$ | $\vdash$   | 1 |
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|              | 40       | H           | ├-       | <del> </del> — | $\vdash$   | -        | -  | ⊢            | ⊢  |  |     |       | 90<br>91 | -  | -  | ├  | ├                | -  |          | $\vdash$   | + |
| $\vdash$     | 41<br>42 | ₩           | $\vdash$ | $\vdash$       | -  | -        | -  | $\vdash$     | -  |  |     |       | 92       | $\vdash$                                     | $\vdash$   | ╁╾   | ╁                | -  | -        | $\vdash$   | t |
| -            | 42       | H           | ╁        | $\vdash$       | ⊢  | -        | $\vdash$   | -            |  | $\vdash$   | {   |       | 93       | $\vdash$                                     | $\vdash$   | $\vdash$   | <del>  -  </del> | -  | ├        | $\vdash$   | t |
| -            | 43       | H           | +-       | $\vdash$       | $\vdash$   | +-       | $\vdash$   | ├-           | -  | <del> </del>                                     | { } |       | 94       | $\vdash$                                     | $\vdash$   | $\vdash$   | +-               | <del> </del>                                     | $\vdash$ | <del> </del>                                     | t |
|              | 45       | +           | ╌        | $\vdash$       | $\vdash$   | $\vdash$ | -  | ╁╌           | -  | -  |     |       | 95       | H  | $\vdash$   | $\vdash$   | $\vdash$         | <del>                                     </del> | $\vdash$ | -  | t |
|              | 46       | 廾           | $\vdash$ | <del>  -</del> | $\vdash$   | $\vdash$ | $\vdash$   | 1-           | <del>                                     </del> | $\vdash$   | 1 1 |       | 96       | H  | $\vdash$   | t  | $\vdash$         | ┢  | H        | -  | t |
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|              | 48       | 11          | $\vdash$ | $\vdash$       | <del>                                     </del> | -        | Н  | $\vdash$     |  |  | 1 1 |       | 98       | $\vdash$                                     | <del>                                     </del> | H  | T                | Т  | 1-       | Т  | t |
|              | 49       | 1           | 1        | t              |  | <u> </u> |  | Г            |  |  | 1 1 |       | 99       | $\vdash$                                     | $\vdash$   | $\vdash$   | T                |  | Г        | Г  | t |
|              | 50       | Ξ           | $\vdash$ | $\vdash$       | $\vdash$   | Т        | H  | T            |  |  | 1 1 |       | 100      | Т  | 1  | Т  | $\vdash$         | Т  | Г        | Т  | T |
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| Cla      | im                               |              |          |          |          | Date     |          |               |              |          |
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| Final    | Original                         | 10/6/05      |          |          |          |          |          |               |              |          |
|          | 51<br>52<br>53<br>54<br>55<br>56 | 1            |          |          |          |          |          |               |              |          |
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| $\vdash$ | 57<br>58                         |              |          | L.       |          |          |          |               |              | _        |
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| <u> </u> | 59                               |              | -        | H        | H        |          | -        |               |              | _        |
| <u> </u> | 60                               |              | -        | -        |          | _        | Н        |               | -            | _        |
|          | 61<br>62                         | $\vdash$     |          | -        | $\vdash$ | _        | Н        |               |              | _        |
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| -        | 64<br>65                         | $\vdash$     |          | $\vdash$ | $\vdash$ | $\vdash$ | Н        |               | -            | _        |
| _        | 66                               |              | $\vdash$ | -        | $\vdash$ | _        | -        |               |              |          |
|          | 66<br>67                         |              |          | -        | _        |          |          |               |              |          |
|          | 68                               |              |          |          |          |          |          |               |              |          |
|          | 69                               |              |          | _        |          |          |          |               |              |          |
|          | 70                               |              |          |          |          |          |          |               |              |          |
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| <u></u>  | 75                               |              |          | _        |          |          |          |               | _            |          |
|          | 76<br>77                         |              |          | <u> </u> |          | Ш        |          |               |              |          |
|          | 77                               |              | _        | <u> </u> | _        |          | Ш        |               |              |          |
|          | 78<br>79                         |              |          | <u> </u> | ldash    | $\vdash$ |          |               | _            |          |
|          | 79                               |              |          | <u> </u> |          | _        |          |               |              |          |
| <u> </u> | 80                               |              |          | <u> </u> | $\vdash$ |          |          |               |              | -        |
| <b>-</b> | 81                               | -            |          | -        | -        | _        | -        |               | -            | ⊢        |
|          | 82<br>83                         | _            |          | -        | ⊢        | _        | Н        |               | $\vdash$     | -        |
|          | 84                               | $\vdash$     |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | _             | $\vdash$     | ⊢        |
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| $\vdash$ | 86                               | <del> </del> | -        | H        |          |          | -        |               | -            | _        |
|          | 87                               | $\vdash$     | _        | $\vdash$ |          | Т        |          |               | Н            | Ι        |
|          | 88                               | T            |          | _        |          |          |          | $\overline{}$ | Г            |          |
|          | 89                               | Г            |          |          |          |          |          |               |              |          |
|          | 90                               |              |          |          |          |          |          |               |              |          |
|          | 91                               |              |          |          |          |          |          |               |              |          |
|          | 92                               |              |          |          |          |          |          |               |              |          |
|          | 93                               |              |          |          |          |          |          |               |              |          |
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|          | 96                               |              |          | Ĺ        |          |          |          |               |              | L        |
| <u></u>  | 97                               | <u> </u>     | _        | <u> </u> | L        | L        | <u> </u> |               | L            | L        |
| $\vdash$ | 98                               | <u> </u>     | <u> </u> | <u> </u> | <u> </u> |          | L_       |               | _            | <u> </u> |
| <b></b>  | 99                               | <u> </u>     | <u> </u> | ⊢        | $\vdash$ | $\vdash$ | oxdot    |               | $oxed{oxed}$ | _        |
| 1        | 100                              |              | ı        |          |          |          |          |               |              |          |

| CI       | Date              |  |  |              |  |   |          |          |  |  |
|----------|-------------------|--|--|--------------|--|---|----------|----------|--|--|
|          |                   |  |  |              |  |   |          |          |  |  |
| Final    | Original          |  |  |              |  |   |          |          |  |  |
|          | 101               |  | Г  |              |  |   |          |          |  |  |
|          | 101<br>102        |  |  |              |  |   |          |          |  |  |
|          | 103               |  |  |              |  |   |          |          |  |  |
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|          | 106               |  |  | _            | Ш  |   |          |          |  |  |
|          | 107               | _  | <u> </u>   |              |  |   |          |          |  | _  |
|          | 108               | _  | _  | _            |  | _ |          |          |  | _  |
|          | 109               | L  | <u> </u>   |              |  |   |          |          |  |  |
|          | 110               |  |  | _            |  |   |          |          |  |  |
|          | 111               | _  | <u> </u>   | _            |  |   |          | _        | _  |  |
|          | 112               | Ŀ.   |  | <u> </u>     |  |   |          |          | _  |  |
|          | 113               | _  | _  | H            |  |   |          | _        |  | _  |
|          | 114               | _  | ┝  |              | Н  |   | _        | _        | -  | _  |
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| -        | 118<br>119        | ┢  | -  |              | H  |   |          | -        |  | -  |
| -        | 120               |  | $\vdash$   | -            | H  | — | _        |          | -  |  |
|          | 121               | -  | $\vdash$   |              | Н  |   |          |          |  |  |
| _        | 121<br>122        | $\vdash$   | ┢  | -            |  | - | _        | -        | _  | _  |
|          | 123               |  |  | $\vdash$     |  |   |          |          | -  |  |
|          | 123<br>124        |  | $\vdash$   | $\vdash$     |  |   | _        | _        | _  | $\vdash$   |
|          | 125               |  | _  |              |  |   |          |          |  |  |
|          | 126               |  |  |              |  |   |          |          |  |  |
|          | 127               |  |  |              |  |   |          |          |  |  |
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|          | 131               |  |  | L            |  |   |          |          |  |  |
|          | 132               |  |  | <u> </u>     | <u>.                                    </u> |   |          | _        |  |  |
|          | 133               |  |  | Щ            |  |   |          |          |  |  |
|          | 134               |  | L  | _            | lacksquare                                   |   | _        | _        |  | L  |
| L        | 135               |  |  | L            | $oxed{oxed}$                                 |   | _        |          |  |  |
|          | 136               |  |  | <u> </u>     | _  |   | <u> </u> |          | <u> </u>   | <u> </u>   |
| <u> </u> | 137               | <u> </u>   | <u> </u>   | <u> </u>     |  | - | <u> </u> |          |  | ļ  |
|          | 138               | _  | _  | ├-           |  |   |          |          | _  | ┝  |
| <b>-</b> | 139               | _  | -  | <del> </del> | -  |   |          |          | ├  |  |
| -        | 140<br>141        | -  | -  | -            | <u> </u>                                     | _ | -        |          | ⊢  | ├  |
| -        | 142               | _  | -  | ⊢            | $\vdash$                                     | - | _        | -        | -  |  |
| -        | 143               | -  | ┝  | $\vdash$     | $\vdash$                                     | - | _        | Н        | $\vdash$   | -  |
| -        | 144               | $\vdash$   | ⊢  | ╌            | -  | - | -        | $\vdash$ | $\vdash$   | $\vdash$   |
|          | 145               | $\vdash$   | $\vdash$   | ⊢            | -  |   |          | $\vdash$ | <del>                                     </del> | <del> </del>                                     |
|          | 146               | -  | -  | ┢            |  |   | _        |          | $\vdash$   | $\vdash$   |
|          | 147               | $\vdash$   | $\vdash$   | H            |  | H | -        | -        | $\vdash$   | <del>                                     </del> |
|          | 148               | <del>                                     </del> | <del>                                     </del> | Н            | Н  |   |          |          | <u> </u>   | _  |
|          | 149               | Г  | Т  | Т            | -  |   | _        |          |  | <u> </u>   |
|          | 150               |  |  |              |  |   |          |          |  |  |
|          |                   | •  |  |              | _  |   |          |          |  | _  |